

RESPONSIVE WEB DESIGN

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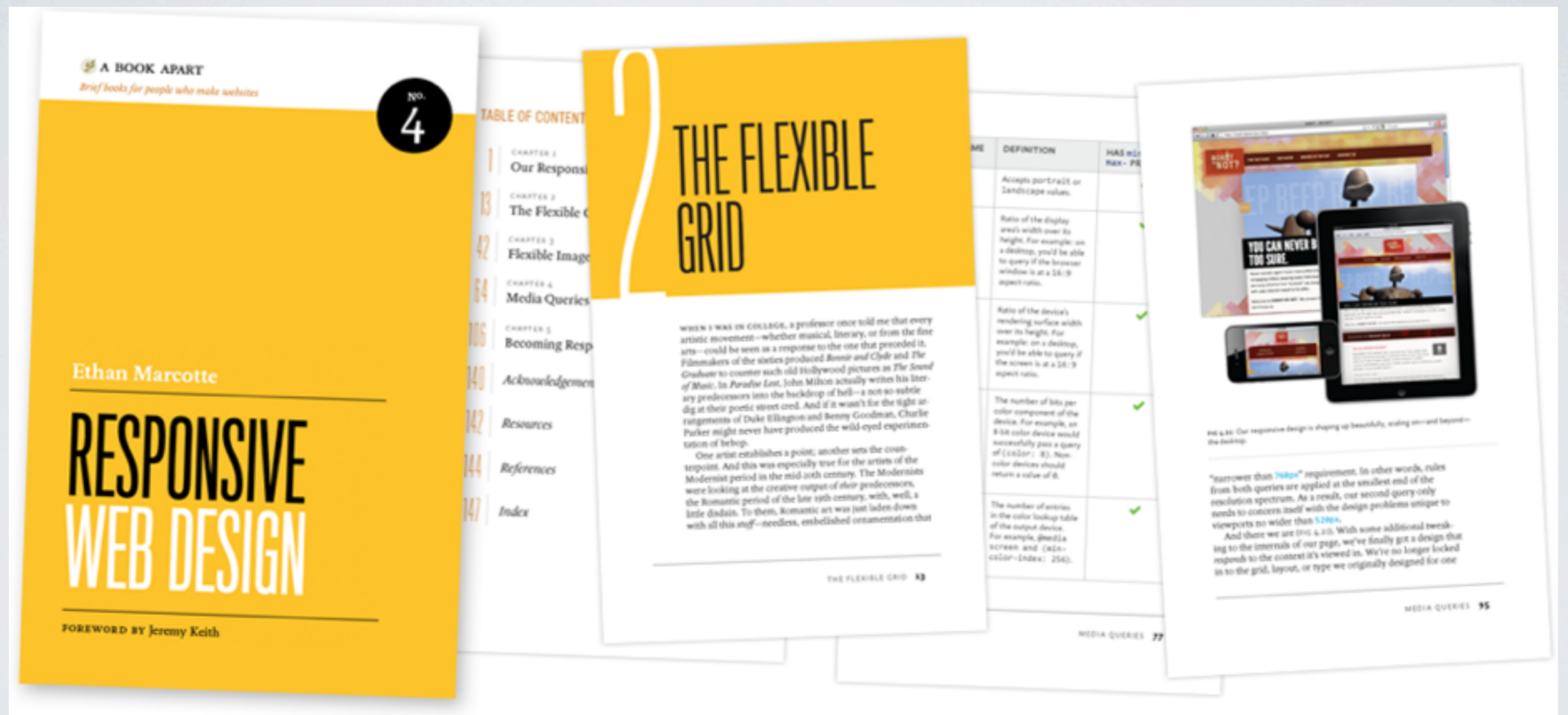
WHY?

- By mid-2012, more people will have access to the web via smartphones than desktops
- 20% drop in home use of PCs, replaced with smartphones/tablets
- ... but we always design with a “desktop-first” / mobile later approach. Why?
- <http://wtfmobileweb.com/>

SOLUTIONS

- Different versions of site content - detect server-side or client side
 - <http://chrisschuld.com/projects/browser-php-detecting-a-users-browser-from-php/>
- Responsive flexible design
- No matter what solution, consider relevant content, consider interaction... rethink the site

RESPONSIVE WEB DESIGN



<http://www.alistapart.com/articles/responsive-web-design/>

RESPONSIVE LAYOUTS

- % width layouts
- media queries
- “mobile first” design

DEVICES

- wide screen desktops: 1200px +
- tablets (ipad): 1024 landscape, 768 portrait
- small tablets (kindle, nook): 600 in portrait
- phone (iphone): 480 landscape, 320 portrait

- [smartphone: 320, tablet 768, netbook 1024, desktop 1600]

EXCELLENT RESPONSIVE SITES

- <http://bearded.com/>
- <http://rsd.joshemerson.co.uk/>

EXAMPLES

- <http://mediaqueri.es/>
- <http://webdesignledger.com/inspiration/24-excellent-examples-of-responsive-web-design>
- Resources
 - <http://bradfrost.github.com/this-is-responsive/>

GETTING STARTED

```
@media screen and (max-width: 480px) {  
  body {  
    background-color: red;  
  }  
}
```

```
@media screen and (min-width: 481px) and (max-width: 1024px) {  
  body {  
    background-color: blue;  
  }  
}
```

```
@media screen and (min-width: 1025px) {  
  body {  
    background-color: yellow;  
  }  
}
```

HOW TO BUILD

- start with either large or small layout
- add/remove elements for each size- don't redefine if you don't have to...

MOBILE

- iphone in particular, tries to render a 980px page at 320 width by default- to fix, add to HTML:
 - `<meta name="viewport" content="width=device-width">`

TESTING

- <http://quirktools.com/screenfly/>
- <http://resizemybrowser.com/>
- <http://mattkersley.com/responsive/>
- <http://responsivepx.com/>

- <http://www.browserstack.com/>
- <http://labs.adobe.com/technologies/shadow/> ... now Edge Inspect!

DESIGN CONSIDERATIONS

- Phone/tablet: people use big fat fingers- buttons should be easy to click
- Phones are small, small text is small. Small text on phones is really small
- Some jQuery magic doesn't scale
- Mobile devices are low bandwidth, design accordingly
- <http://tympanus.net/codrops/2012/01/12/5-things-every-mobile->

IMAGES

```
img { max-width: 100%; }
```

```
img { max-width: 100%; width: 100% }
```

<http://coding.smashingmagazine.com/2012/08/20/towards-retina-web/>

<http://www.resrc.it/docs/>

<http://jquerypicture.com/>

<http://css-tricks.com/which-responsive-images-solution-should-you-use/>

<http://demo.solemone.de/overflow-image-with-vertical-centering-for-responsive-web-design/>

<http://daverupert.com/2011/11/responsive-image-hierarchy/>

BACKGROUND IMAGES

- center image, fixed, no repeat...
- then add:
 - moz-background-size: cover;
 - webkit-background-size: cover;
 - background-size: cover;

FONTS

- Scale manually
- Use EMs
- For headlines <http://fittextjs.com/>

SLIDERS

- <http://webdesignledger.com/resources/8-responsive-jquery-slider-plugins>